

## ABSTRACT

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### **APPARATUS FOR REAL TIME MEASURE/CONTROL OF INTRA-OPERATIVE EFFECTS DURING LASER THERMAL TREATMENTS USING LIGHT SCATTERING**

A treatment apparatus for a tissue site includes a scattered light measurement device.

- 5 The scattered light measurement device produces an excitation beam to scatter from the tissue site and monitors temperature dependent changes at the tissue site. An output device produces an output to an observer that is indicative of the temperature change at the tissue site. The output device can produce a variety of different outputs including but not limited an output through a computer, through a heads up display, through a slit lamp, an audible output or a print out of
- 10 information.